(19) World Intellectual Property Organization International Bureau



I TORIN THANKIN KURUKA KAN ROKU TAKI TAKI TAKI TAKI TAKI HATI HATI HATI TAKI TAKI TAKI TAKI TAKI KAN TAKI KAN T

(43) International Publication Date 10 March 2005 (10.03.2005)

PCT

(10) International Publication Number **WO 2005/021580 A2**

(51) International Patent Classification7:

C07K

(21) International Application Number:

PCT/US2004/028000

(22) International Filing Date: 27 August 2004 (27.08.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/499,634

28 August 2003 (28.08.2003) US

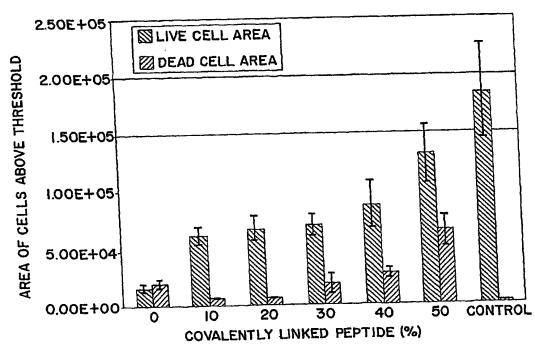
- (71) Applicant (for all designated States except US): ARI-ZONA BOARD OF REGENTS [US/US]; c/o Arizona Technology Enterprises, LLC, 699 S. Mill Ave., Brickyard Suite 601, Room 691AA, Tempe, AZ 85281 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KENNEDY, Chad [US/US]; 3743 East Betsy Lane, Higley, AZ 85236 (US). EHTESHAMI, Gholam, Reza [US/US]; 7735 East Adele

Court, Scottsdale, AZ 85255 (US). HOM, Doris [US/US]; 932 South MacDonald, Mesa, AZ 85210 (US). MASSIA, Stephen [US/US]; 2313 Inglewood Street, Mesa, AZ 85213 (US).

- (74) Agent: LUTHER, Barbara, J.; Quarles & Brady Streich Lang LLP, One Renaissance Square, Two North Central Avenue, Phoenix, AZ 85004 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: HYDROGELS FOR MODULATING CELL MIGRATION AND MATRIX DEPOSITION



(57) Abstract: A biodegradable matrix for inducing cell migration therein, wherein two peptides are covalently linked to the matrix, a first peptide being cleavable by natural proteases and the other comprising a cell-attracting peptide. The first peptide is cleavable by tissue metalloproteinases. The second peptide contains the cell-attracting peptide RGD. Also disclosed is an implant containing the biodegradable matrix.

WO 2005/021580 A2



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BI, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

without international search report and to be republished upon receipt of that report